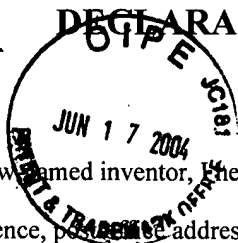


# DECLARATION FOR ORIGINAL U.S. PATENT APPLICATION



Attorney's Docket No. UCALP020/B03-085

As a below named inventor, I hereby declare that:

My residence, present address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **FLUID CONTROL STRUCTURES IN MICROFLUIDIC DEVICES**, the specification of which,

(check one)

1. ☐ is attached hereto.
2. ☒ was filed on December 29, 2003 as  
U.S. Application No. 10/750,533  
and was amended on \_\_\_\_\_.
3. ☐ was filed on \_\_\_\_\_ as  
International PCT Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, CFR §1.56.

## Prior Foreign Application(s)

I hereby claim foreign priority benefits under Title 35, United States code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

		Priority Benefits Claimed?	
		Yes	No
_____ (Appl. No.)	_____ (Country)	_____ (Date Filed- Day/Month/Year)	_____ Yes No
_____ (Appl. No.)	_____ (Country)	_____ (Date Filed- Day/Month/Year)	_____ Yes No

## Provisional Application(s)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

<u>60/437,262</u> (Application No.)	<u>12/30/02</u> (Filing Date)
<u>60/475,013</u> (Application No.)	<u>05/30/03</u> (Filing Date)

## Prior U.S. Application(s)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this applications is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

Send Correspondence To:

Customer Number: 022434

022434

Direct Telephone Calls To:

William J. Egan, III at (510) 843-6200

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of

First Inventor: Richard A. Mathies

Citizenship: U.S.A.

Inventor's signature: Richard A. Mathies

Date of Signature: 4/28/04

Residence: (City) Moraga

(State/Country) CA

Post Office Address: 93 Danefield Place, Moraga, CA 94556

Full Name of Second Joint

Inventor (if any): William H. Grover

Citizenship: U.S.A.

Inventor's signature: William H. Grover

Date of Signature: April 28, 2004

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 2214 Channing Way, #1, Berkeley, CA 94704

Full Name of Third Joint

Inventor (if any): Brian Paegel

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 4747 Hamilton Street, #10, San Diego, CA 92116

Full Name of Fourth Joint

Inventor (if any): Alison Skelley

Citizenship: Canada

Inventor's signature: Alison Skelley

Date of Signature: April 28/04

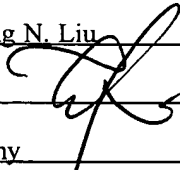
Residence: (City) Berkeley

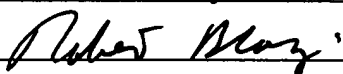
(State/Country) CA

Post Office Address: 1771 Highland Place, #204, Berkeley, CA 94709

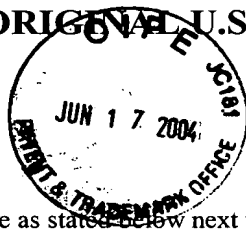
Full Name of Fifth Joint

Inventor (if any): Eric Lagally Citizenship: U.S.A.  
Inventor's signature: \_\_\_\_\_ Date of Signature: \_\_\_\_\_  
Residence: (City) Oakland (State/Country) CA  
Post Office Address: 483 Fairbanks Avenue, Oakland, CA 94610

Full Name of Sixth Joint  
Inventor (if any): Chung N. Liu Citizenship: Hong Kong (SAR)  
Inventor's signature:  Date of Signature: April 28, 2004  
Residence: (City) Albany (State/Country) CA  
Post Office Address: 1070 Jackson Street, #710, Albany, CA 94706

Full Name of Seventh Joint  
Inventor (if any): Robert Blazej Citizenship: U.S.A.  
Inventor's signature:  Date of Signature: 04-28-04  
Residence: (City) Berkeley (State/Country) CA  
Post Office Address: 2940 Claremont Avenue, #4, Berkeley, CA 94705

# DECLARATION FOR ORIGINAL U.S. PATENT APPLICATION



Attorney's Docket No. UCALP020/B03-085

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **FLUID CONTROL STRUCTURES IN MICROFLUIDIC DEVICES**, the specification of which,

- (check one)
1. ☐ is attached hereto.
  2. ☒ was filed on December 29, 2003 as  
U.S. Application No. 10/750,533  
and was amended on \_\_\_\_\_.
  3. ☐ was filed on \_\_\_\_\_ as  
International PCT Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, CFR §1.56.

## Prior Foreign Application(s)

I hereby claim foreign priority benefits under Title 35, United States code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

			Priority Benefits Claimed?
			Yes No
_____ (Appl. No.)	_____ (Country)	_____ (Date Filed- Day/Month/Year)	Yes No
_____ (Appl. No.)	_____ (Country)	_____ (Date Filed- Day/Month/Year)	Yes No

## Provisional Application(s)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

<u>60/437,262</u> (Application No.)	<u>12/30/02</u> (Filing Date)
<u>60/475,013</u> (Application No.)	<u>05/30/03</u> (Filing Date)

## Prior U.S. Application(s)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this applications is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

Send Correspondence To:

Customer Number: 022434

022434

Direct Telephone Calls To:

William J. Egan, III at (510) 843-6200

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of

First Inventor: Richard A. Mathies

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Moraga

(State/Country) CA

Post Office Address: 93 Danefield Place, Moraga, CA 94556

Full Name of Second Joint  
Inventor (if any):

William H. Grover

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 2214 Channing Way, #1, Berkeley, CA 94704

Full Name of Third Joint  
Inventor (if any):

Brian Paegel

Citizenship: U.S.A.

Inventor's signature: Brian M. Paegel

Date of Signature: 30 Apr. 2004

Residence: (City) ~~Berkeley~~ SAN DIEGO

(State/Country) CA

Post Office Address: 4747 Hamilton Street, #10, San Diego, CA 92116

Full Name of Fourth Joint  
Inventor (if any):

Alison Skelley

Citizenship: Canada

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 1771 Highland Place, #204, Berkeley, CA 94709

Full Name of Fifth Joint  
Inventor (if any): Eric Lagally Citizenship: U.S.A.  
**Inventor's signature:** \_\_\_\_\_ **Date of Signature:** \_\_\_\_\_  
Residence: (City) Oakland (State/Country) CA  
Post Office Address: 483 Fairbanks Avenue, Oakland, CA 94610

Full Name of Sixth Joint  
Inventor (if any): Chung N. Liu Citizenship: Hong Kong (SAR)  
**Inventor's signature:** \_\_\_\_\_ **Date of Signature:** \_\_\_\_\_  
Residence: (City) Albany (State/Country) CA  
Post Office Address: 1070 Jackson Street, #710, Albany, CA 94706

Full Name of Seventh Joint  
Inventor (if any): Robert Blazej Citizenship: U.S.A.  
**Inventor's signature:** \_\_\_\_\_ **Date of Signature:** \_\_\_\_\_  
Residence: (City) Berkeley (State/Country) CA  
Post Office Address: 2940 Claremont Avenue, #4, Berkeley, CA 94705

# DECLARATION FOR ORIGINAL U.S. PATENT APPLICATION

Attorney's Docket No. UCALP020/B03-085

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **FLUID CONTROL STRUCTURES IN MICROFLUIDIC DEVICES**, the specification of which,

(check one)

1. ☐ is attached hereto.

2. ☒ was filed on December 29, 2003 as  
U.S. Application No. 10/750,533  
and was amended on \_\_\_\_\_.

3. ☐ was filed on \_\_\_\_\_ as  
International PCT Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, CFR §1.56.

## Prior Foreign Application(s)

I hereby claim foreign priority benefits under Title 35, United States code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

(Appl. No.)	(Country)	(Date Filed- Day/Month/Year)	Priority Benefits Claimed? Yes No
_____	_____	_____	____ Yes ____ No
_____	_____	_____	____ Yes ____ No

## Provisional Application(s)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

<u>60/437,262</u> (Application No.)	<u>12/30/02</u> (Filing Date)
<u>60/475,013</u> (Application No.)	<u>05/30/03</u> (Filing Date)

## Prior U.S. Application(s)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this applications is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

Send Correspondence To:

Customer Number: 022434

022434

Direct Telephone Calls To:

William J. Egan, III at (510) 843-6200

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of

First Inventor: Richard A. Mathies

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Moraga

(State/Country) CA

Post Office Address: 93 Danefield Place, Moraga, CA 94556

Full Name of Second Joint  
Inventor (if any):

William H. Grover

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 2214 Channing Way, #1, Berkeley, CA 94704

Full Name of Third Joint  
Inventor (if any):

Brian Paegel

Citizenship: U.S.A.

Inventor's signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 4747 Hamilton Street, #10, San Diego, CA 92116

Full Name of Fourth Joint  
Inventor (if any):

Alison Skelley

Citizenship: Canada

Inventor's signature: \_\_\_\_\_

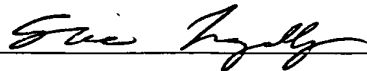
Date of Signature: \_\_\_\_\_

Residence: (City) Berkeley

(State/Country) CA

Post Office Address: 1771 Highland Place, #204, Berkeley, CA 94709



Full Name of Fifth Joint  
Inventor (if any): Eric Lagally Citizenship: U.S.A.  
Inventor's signature:  Date of Signature: 5/3/24  
Residence: (City) Oakland (State/Country) CA  
Post Office Address: ~~483 Fairbanks Avenue, Oakland, CA 94610~~ 2727 Miradero Drive #208  
Santa Barbara, CA 93105

Full Name of Sixth Joint  
Inventor (if any): Chung N. Liu Citizenship: Hong Kong (SAR)  
Inventor's signature: \_\_\_\_\_ Date of Signature: \_\_\_\_\_  
Residence: (City) Albany (State/Country) CA  
Post Office Address: 1070 Jackson Street, #710, Albany, CA 94706

Full Name of Seventh Joint  
Inventor (if any): Robert Blazej Citizenship: U.S.A.  
Inventor's signature: \_\_\_\_\_ Date of Signature: \_\_\_\_\_  
Residence: (City) Berkeley (State/Country) CA  
Post Office Address: 2940 Claremont Avenue, #4, Berkeley, CA 94705